



(18°41'N x 156°59'W at 1200)

Location 19°29'N x 157°00'W to 17°39'N x 157°04'W

Observer

Date 6 November, 1964 Time 0631 to 1755

Weather

11.4  
110 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater		28						all light phase 2.5
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird	1							
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird	1							
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern		36						3.2
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern	1							
<i>Leach's Storm Petrel</i>	5							
<i>Small Pterodroma</i>		44						
<i>Shearwater-Petrel</i>		10						Total birds = 124

(14° 55' N x 156° 59' W at 1200)

Location 15° 58' N x 156° 58' W to 13° 52' N x 157° 00' W

Observer

Date 6 November 1964 Time 0627 to 1759

Weather

126 miles

11.5

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	4							ad light-phase 0.3
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird	1							
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern	7							0.6
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern	1							
Small Pterodroma	8							
Large Pterodroma	5							

26-1-73



(11° 11' N 7 153° 58' W at 1200)

Location 10° 07' N 7 153° 56' W to 17° 07' N 7 153° 58' W

Observer

Date 8 November, 1964 Time 0608 to 1748

Weather

120 miles 11.7

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater		41			3.5			2 in tern white phase, 150 + 100 dark phase
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern		92						7.9
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
0.5 Sooty Shearwater	7							
White-neck Petrel	2							
Leach's Storm Petrel		15						
Shearwater-Petrel								
Shearwater	1							
Small Pterodroma		72						
Large Pterodroma		40						
Pterodroma	1							
Shearwater-Petrel		26						
								total birds = 297

(14° 55' N → 154° 00' W at 1200)

Location 14° 59' N → 153° 55' W to 15° 56' N → 154° 03' W

Observer

Date 9 November, 1964 Time 0614 to 1744

Weather

107 miles

11.5

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater								0.0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird	2							
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern								0.0
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Sooty Shearwater		15						
31.3 Forked-bill Shearwater			345					
Kermadec Petrel	2							No other data
Leach's Storm Petrel	1							
Small Pterodroma	3	33						
Large Pterodroma	8							
Pterodroma	1							
Shearwater-Petrel	5							
								Total birds = 412

11.5

(18°50'N to 19°41'N at 1200)

Location 17°45'N to 19°41'N 153°55'W to 153°57'W

Observer

Date 10 November 1964 Time 0618 to 1738

Weather

116 miles 11.3

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater								0.0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel	1							
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern	1							0.1
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Herald Petrel	1							
Sooty Shearwater	1							
Shearwater-Petrel			400					
Tropicbird	2							
Small Pterodroma	7							
Large Pterodroma	6							
Shearwater-Petrel	5							
								Total birds = 424

35.5

37.5

( 22° 33' N 153° 50' W at 1200 )

Location 21° 44' N 153° 55' W to 23° 28' N 153° 57' W

Observer

Date // November, 1964 Time 0625 to 1732

Weather

104 miles 11.1

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross	1							
Wedge-tailed Shearwater								0.0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird	2							
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern								0.0
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Sooty Shearwater	1							
Slender-bill Shearwater	7							
Leach's Storm Petrel	3							
Mottled Petrel	1							
Small Pterodroma	2							
Shearwater-Petrel	1							

Total birds = 18



(23° 30' N 7 151° 09' W at 1200)

Location 23° 29' N 7 152° 02' W to 22° 52' N 7 151° 00' W

Observer

Date 12 November 1964 Time 0620 to 1721

Weather

95 miles

11.0

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater								0.0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird	2							
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird	1							
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern								0.0
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
9.1 Sooty Shearwater	4							
Slender-bill Shearwater		93						
10.5 Sooty Slender-bill Shear	3							
Shearwater-Petrel	1							
Total birds =								104

(20°08'N → 150°57'W at 1200)

Location 20°49'N → 150°58'W to 19°04'N → 151°00'W

Observer

Date 13 November, 1964 Time 0613 to 1724

Weather

105 miles 11.2

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater								0.0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird	/							
White-tailed Tropicbird	/							
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern								0.0
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Sooty Shearwater	1							
Slender-bill Shearwater		16						
Kook's Storm Petrel	3							
Small Pterodroma	3							
Large Pterodroma	1							
Shearwater-Petrel	1							

Total birds = 27

(16°24'N 7 151°00'W at 1200)

Location 17°32'N 7 151°00'W to 15°31'N 7 150°59'W

Observer

Date 14 November, 1964 Time 06 08 to 1731

Weather

121 miles

11.4

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater								0.0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird	1							
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern			122					10.7
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
<i>Sooty-bill Shearwater</i>	3							
<i>White-neck Petrel</i>	1							
<i>Kermadec Petrel</i>	1							et ph.
<i>Leach's Storm Petrel</i>	2							
<i>Pterodroma</i>	2							
<i>Small Pterodroma</i>		14						
<i>Large Pterodroma</i>		10						
<i>Shearwater-Petrel</i>		31						

16.4

total birds = 187



(10°23'N 148°24'W at 1200)

Location 10°48'N 149°20'W to 10°10'N 147°55'W

Observer \_\_\_\_\_ Date 16 November 1964 Time 0515 to 1726

Weather \_\_\_\_\_ 94 miles 11.5

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater		//						7 dark phase 0.9
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern	2							0.2
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
White-noddy Petrel	1							
Kermadec Petrel	1							Intermediate Ph
Slender-bill Shearwater	2							
Sooty Storm Petrel		16						
Small Pterodroma	2							
Large Pterodroma		82						
Shearwater Petrel	4							

Total birds = 17-1

10.5

(13°09'N → 148°01'W at 1200)

Location 12°10'N → 147°55'W to 14°11'N → 147°55'W

Observer

Date 17 November 1964 Time 0550 to 1721

Weather

121 miles

11.5

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000+	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater		10						1 dark phase 0.9
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern			114					9.9
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern		11						
0.8 Sooty Shearwater	9							
Newell's Shearwater	2							
Leach's Storm Petrel	6							
Small Pterodroma	8							
Large Pterodroma		28						
Shearwater-Petrel		12						
								total birds = 200

17.4

(17°20'N 147°58'W at 1200)

Location 16°08'N 147°55'W to 17°51'N 147°59'W

Observer

Date 18 November 1964 Time 0557 to 1716

Weather

11.3  
103 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	5							0.4
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird	/							
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby	/							
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern								0.0
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Sooty Shearwater	5							
Leach's Storm Petrel	4							
bird	2							
Small Pterodroma		10						
Large Pterodroma	3							
Shearwater-Petrel	5							

Total birds = 36

( 21°00'N 147°59'W at 1200 )

Location 20° 04'N 147° 59'W to 21° 57'N x 147° 59'W

Observer

Date 19 November 1964 Time 0608 to 1710

Weather

113 miles

11.0

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross								
Wedge-tailed Shearwater	1							0.1
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird	2							
White-tailed Tropicbird	4							
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern								0.0
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
0.5 Sooty Shearwater	5							
Herald's Petrel	2							
Leach's Storm Petrel	7							
Kermadec Petrel	1							no time later
Storm Petrel	1							
Small Shearwater		12						
Shearwater-Petrel	4							

Total birds = 39



( 24°58'N 147°58'W at 1200 )

Location 23°51'N 147°57'W to 25°46'N 147°55'W  
Observer \_\_\_\_\_ Date 20 November, 1964 Time 0610 to 1707  
Weather \_\_\_\_\_

115 miles

11.0

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross	3							
Wedge-tailed Shearwater	1							0.1
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird								
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird	1							
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern								0.0
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Sooty Shearwater		13						
Leach's Storm Petrel	6							
Mottled Petrel	1							
Small Pterodroma	1							
Shearwater-Petrel	1							

total birds = 27

(25°26'N 7 150°07'W of 1200)

Location 26°01'N 7 149°09'W to 25°02'N 7 150°58'W

Observer \_\_\_\_\_

Date 21 November 1964 Time 0619 to 1714

Weather \_\_\_\_\_

10.9

116 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross	2							
Wedge-tailed Shearwater								0.0
Christmas I. Shearwater								
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird	1							
White-tailed Tropicbird								
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird								
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern								0.0
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern								
Sooty Shearwater	1							
Newell's Shearwater	1							
Leach's Storm Petrel	6							
Shearwater-Petrel	4							

Total birds = 15

1.4

(25°01'N x 154°00'W at 1200)

Location 25°02'N x 153°26'W to 24°58'N x 154°59'W

Observer

Date 22 November 1964 Time 0634 to 1731

Weather

11.0

84 miles

SPECIES	Abundance				Breeding			Remarks
	1-10	10-100	100-1000	1000 +	Nests	Eggs	Young	
Laysan Albatross								
Black-footed Albatross		17+						
Wedge-tailed Shearwater	9							0.8
Christmas I. Shearwater	2							
Audubon's Shearwater								
Bonin I. Petrel								
Phoenix I. Petrel								
Bulwer's Petrel								
Sooty Petrel								
Red-tailed Tropicbird	1							
White-tailed Tropicbird	2							
Masked Booby								
Brown Booby								
Red-footed Booby								
Great Frigatebird	4							
Golden Plover								
Ruddy Turnstone								
Wandering Tattler								
Sanderling								
Bristle-thighed Curlew								
Sooty Tern								0.0
Gray-backed Tern								
Brown-winged Tern								
Common Noddy								
Hawaiian Noddy								
Blue-gray Noddy								
Fairy Tern	1							
25 Sooty Shearwater		22						
Shearwater-Petrel	5							
Kermadec Petrel	1							light phase
Leach's Storm Petrel	2							
Small Pterodroma	5							
Shearwater-Petrel	4							
								Total birds = 75

6.9

